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Other Sodium Channel Modulators

Description	Biochem/physiol Actions
Ambroxol hydrochloride	Metabolite of bromhexine. A Nav1.8-preferring sodium c
Anemone Toxin II >95%, lyophilized powder	Originally isolated from <i>Anemone</i> . Voltage-gated sodium chann
APE 1-2 >95%, lyophilized powder	Cardiotoxin. Less potent than
APE 2-1 >98%, lyophilized powder	Cardiotoxin that modulates the channels in neuroblastoma ce
ATX II recombinant, from <i>Escherichia coli</i> ≥98%, lyophilized powder	rATX II is a 47 amino acid peptide. Anemone <i>sulcata</i> sea anemone neurotoxin, which modulates voltage-gating kinetics by delaying its action potential of excitable membranes as a powerful activator of TTX channels in various excitable membranes. Concentration range of 10-100

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Benzamil hydrochloride hydrate ≥98% (HPLC)	Selective and potent blocker c
Benzocaine	
Benzoylheteratinsine hydrochloride ≥97% (TLC), solid	A Na ⁺ channel blocker; poten
BIA 2-093 ≥98% (HPLC), solid	Blocker of voltage-gated sodium channels; excitatory amino acid (glutamate)
Brevetoxin 2	Potent toxins responsible for "red tides"; compounds disrupt neurotransmitter channels.
Brevetoxin 9	Potent toxins responsible for "red tides"; compounds disrupt neurotransmitter channels.
Bupivacaine hydrochloride ≥ 99%	Sodium channel blocker, local anesthetic
Carbamazepine powder	Anticonvulsant; ligand for the voltage-gated sodium channel modulatory site. Sodium channel inhibitor
Carbamazepine meets USP testing specifications	Anticonvulsant; ligand for the voltage-gated sodium channel modulatory site. Sodium channel inhibitor
Conotoxin GI ≥97% (HPLC)	Postsynaptic inhibitor at the receptor
3',4'-Dichlorobenzamil hydrochloride >98% (HPLC)	Inhibits Na ⁺ /Ca ²⁺ exchanger, likely involved in endoplasmic reticulum Ca ²⁺ release channels
Dihydroouabain	Cardiac glycoside; an inhibitor of the Na ⁺ /K ⁺ ATPase pump
Disopyramide	Class IA antiarrhythmic; sodium channel blocker
Disopyramide phosphate salt	Class IA antiarrhythmic; sodium channel blocker
Encainide hydrochloride ≥98% (HPLC), powder	Encainide hydrochloride is a selective antiarrhythmic. Encainide is a benzylidene derivative.
Flecainide acetate salt	Class IC antiarrhythmic agent; sodium channel blocker
Grayanotoxin III Hemi(ethyl acetate) adduct ≥90% (GC)	Sodium channel modulator
Halofantrine hydrochloride ≥ 98% (HPLC), solid	Halofantrine is a blocker of delayed rectifier potassium channels via the inhibition of hERG channels

KR-32568 ≥98% (HPLC), solid	Sodium/hydrogen exchanger- μM; inhibited NHE-1-mediated anesthetized rats, reduced inf: 43% (at 0.1 mg/kg) and 24% (ventricular premature beats fr 115 (at 1.0 mg/kg); reduced v 17 to 8 (0.1 mg/kg) and 0 (1.0 and treatment of myocardial is
Lappaconitine hydrobromide 96%, solid	Selective blocker of the TTX-s influence on the activation thre
Lidocaine powder	Na⁺ channel blocker; class IB absorbed after parenteral adr
Lidocaine Sigma Reference Standard	Na⁺ channel blocker; class IB absorbed after parenteral adr
Lidocaine hydrochloride monohydrate solid	Na⁺ channel blocker; class IB absorbed after parenteral adr
Lidocaine N-ethyl chloride	Lidocaine N-ethyl chloride is a sodium channel blocker.
Lidocaine N-methyl chloride	Intracellular voltage-gated soc
R(-)-Me5 hydriodide solid	Potent sodium channel antag
Mepivacaine hydrochloride 98.0-102.0%, meets USP testing specifications	Local anesthetic. Reversibly b as well as the steady-state K ⁺ pore (TASK) and Kv1.5, potas
Metolazone ≥98% (HPLC), solid	Inhibitor of thiazide-sensitive antihypertensive; moderate “Ic
Mexiletine hydrochloride >98% (GC), powder	Class IB antiarrhythmic; sodi
Ouabain octahydrate ≥95% (HPLC), powder	Cardiac glycoside, inhibits Na ⁺ transcription of MDR (increase and decrease CFTR, cyclic fib activated Cl- channel) genes, Ouabain resistance is associa ATPase isoforms with low bind
α-Pomplidotoxin >98%	Voltage-gated sodium chann
β-Pomplidotoxin ≥98%	Voltage-gated sodium chann
Procainamide hydrochloride	Inhibits DNA methyltransferas regulation of gene expression. IA anti-arrhythmic.

Procaine hydrochloride $\geq 97\%$	Na ⁺ channel blocker
Propafenone hydrochloride	Blocks hKv1.5 and ATP-sensi tive antiarrhythmic agent that is also receptors.
Pyrethrum extract ~25% (pyrethrins I)	
Quinidine anhydrous	Class IA antiarrhythmic; potas
Quinidine sulfate salt dihydrate	Class IA antiarrhythmic; potas
Sodium/Potassium Channel Modulators Ligand Set ligand set for potassium/ sodium channel modulators, exchangers, cotransporters, ionophores and ion pumps	
Tetrodotoxin powder	Reversible, selective blocker of propagation of impulses in exc characterize sodium channels; study the role of sodium chan disease.
Tetrodotoxin ~99% (HPLC), powder	Reversible, selective blocker of propagation of impulses in exc characterize sodium channels; study the role of sodium chan disease.
Tocainide hydrochloride $\geq 98\%$ (HPLC), solid	Tocainide hydrochloride is a strong antiarrhythmic.
Topiramate hydrochloride $\geq 98\%$ (HPLC), solid	Topiramate is an ion channel muscle relaxant.
Triamterene $\geq 99\%$	Weak diuretic with potassium reuptake in the kidneys.
UCL 2077 $\geq 98\%$ (HPLC), solid	UCL 2077 is a slow afterhyperpolarization blocker.
Veratridine $\geq 90\%$ (HPLC), powder	Opens voltage-dependent Na ⁺ inactivation. This, in turn, opens K ⁺ channels, thus increasing intracellular K ⁺ concentration, inducing neurotransmitter release, depolarizes excitable tissue; increases sodium permeability. Veratridine is a <i>potent</i> <i>in vitro</i> blocker.

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